

## TDMA-TDD BASIC FRAME IN 3GPP AND TSM CELLULAR SYSTEMS

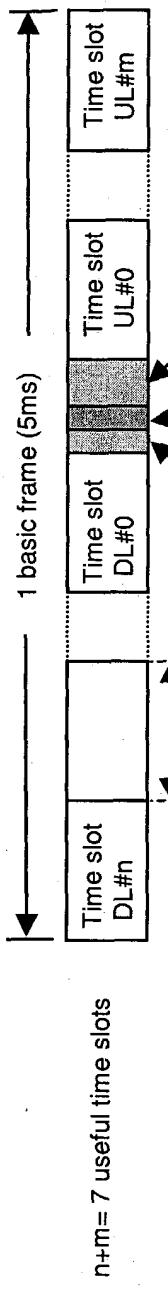


Figure 1

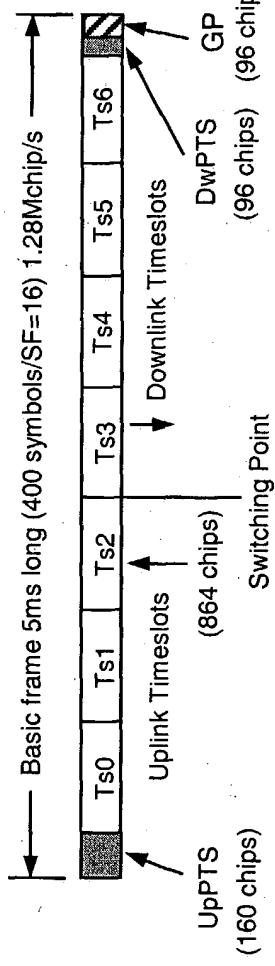


Figure 2

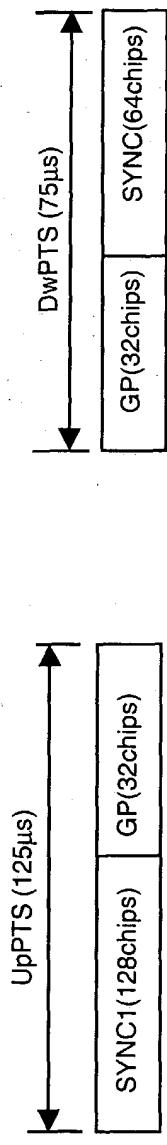


Figure 3

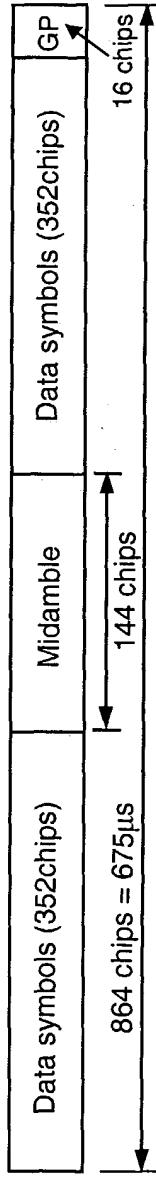


Figure 4

Figure 5

## POSSIBLE CONFIGURATION OF LGIC AND PHYSIC CHANNELS IN 3GPP AND TSM CELLULAR SYSTEMS

2/4

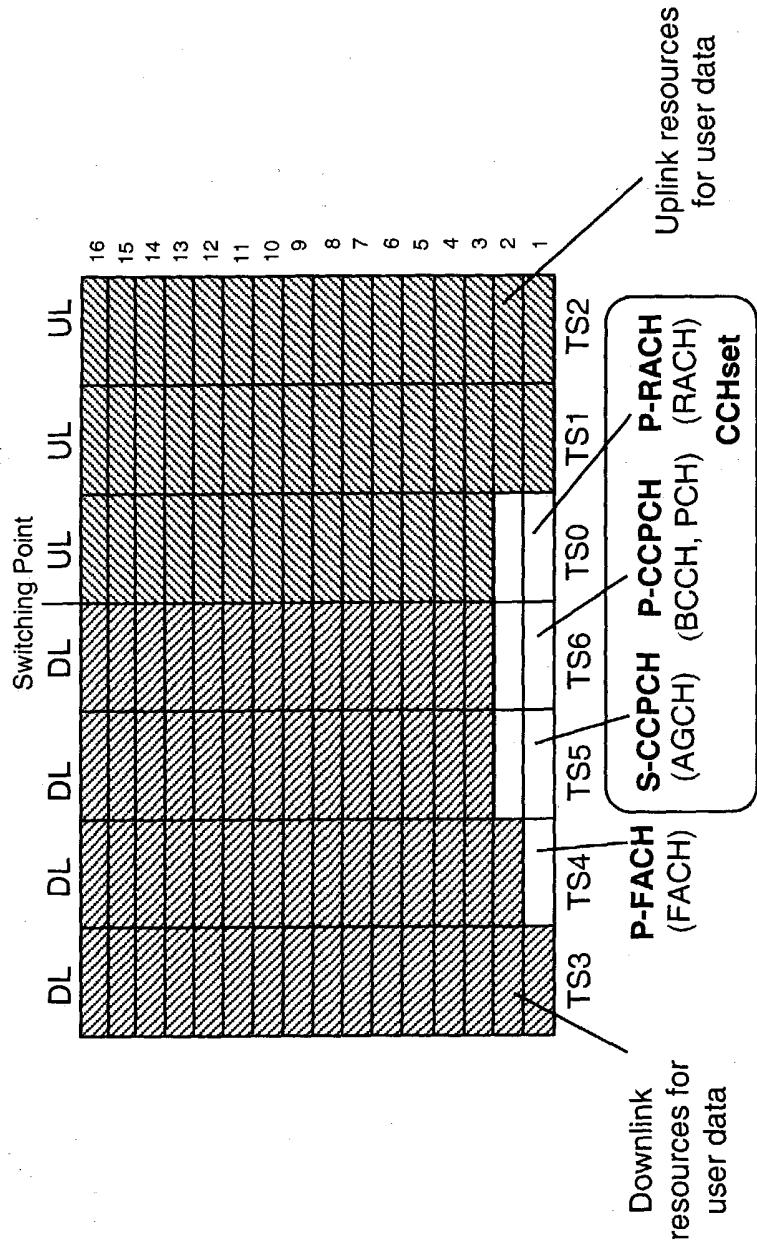


Figure 6

**Figure 7: Example of sub-frame occupancy for RACH procedure in TSM mode**

sub-frame Number	0	1	2	3	4	5	6	7	8	9
Users/sent signatures	1	4			6					
2										
3										
4										
5										
Acknowledged user		1	2	3	4	6				
User sending RACH				1	2	3	4	6	-	-

**Figure 8: Example of sub-frames occupancy for configuration 1 in 3GPP**

sub-frame Number	0	1	2	3	4	5	6	7	8	9
Users/sent signatures	1	4								
2										
3										
Acknowledged user		1	2	3	4					
User sending RACH				1	1	2	2	4	4	
					3	3				

**Figure 9: Example of sub-frames occupancy for configuration 2 in 3GPP**

sub-frame Number	0	1	2	3	4	5	6	7	8	9
Users sending on UpPCH	1			4	5					
2										
3										
Acknowledged user		1	2	3	4	5				
User sending RACH				1	1	2	2	4	4	
						3	3	5	5	

**Figure 10: Example of sub-frames occupancy for configuration 3 in 3GPP**

Sub-frame Number	0	1	2	3	4	5	6	7	8	9
Users sending on UpPCH	1		4		5					
2										
3										
Acknowledged user		1	2	3	4	5	5			
User sending RACH				1	1	2	2	4	4	
						3	3	5	5	

**Figure 11: Example of sub-frames occupancy for configuration 4 in 3GPP**

sub-frame Number	0	1	2	3	4	5	6	7	8	9
Users sending on UpPCH	1				4					
	2				5					
	3									
Acknowledged user		1	2	3		4	5			
User sending RACH			1	1	2		4	4	5	5
			2	2			5			

**Figure 12: Example of sub-frames occupancy for configuration 5 in 3GPP**

sub-frame Number	0	1	2	3	4	5	6	7	8	9
Users sending on UpPCH	1				4					
	2				5					
	3									
Acknowledged user		1	2	3		4	5			
User sending RACH			1	1	2	2	4	4	5	5
			2	2			5			